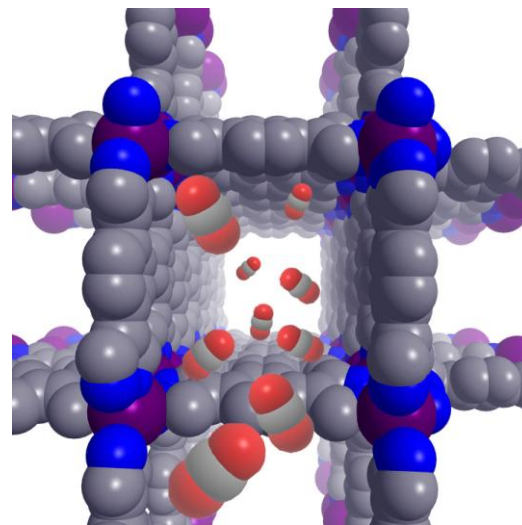




U.S. DEPARTMENT OF
ENERGY

Center for Gas Separations Relevant to Clean Energy Technologies **Berend Smit (UC Berkeley)**

The aim of this EFRC is to develop new strategies and materials that allow for *energy efficient selective capture or separation of CO₂* from gas mixtures based on molecule-specific chemical interactions.



RESEARCH PLAN AND DIRECTIONS

Capture of CO₂ from gas mixtures requires the molecular control offered by nanoscience to tailor-make those materials exhibiting exactly the right adsorption and diffusion selectivity to enable an economic separation process. Characterization methods and computational tools will be developed to guide and support this quest.



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